

The Desulphurization of Iron in Foundry Practice,
by K. Rosch. UNCL

OKMAN, per, Gieseler, 30 Apr 1953, pp 230-234.

British Iron and Steel Ind
(no number given)

Sci - Min/Mat
Sep 59

98,354

The Evolution of CO by Passing CO₂ Over Incandescent
Coke at Variable Temperatures and Flow Rates, by
G. Glas, E. Djarnas, 10 pp.

GERMAN, per, Giesserei, Vol XL, No 19, 1953,
pp 473-477.

SLA 60-10782

Sci

OTS, Vol III, No 7

133,083

Piwowarsky, E.
WHAT IS MEEHANITE (Was 1st Meehanite)
[1963] [21p] (foreign text included 14 refs)
Order from SLA \$2.60 TT-64-10541

Trans. of Gleason (West Germany) 1953,
v. 40, no. 14, p. 334-359.

DESCRIPTORS: *Iron alloys, *Castings, Graphite,
Crystallization, Mechanical properties, Manufacturing
methods, Transformations, Austenite, Martensite.

(Metallurgy--Ferrous Metals, TT, v. 12, no. 6)

TT-64-10541

1. Title: Meehanite
1. Piwowarsky, E.

Office of Technical Services

The Physical and Mathematical Basis for Calculating
the Cooling of the Ingot in Continuous Casting
by Means of Difference Equations, by
H. Klein,

GERMAN, per, ~~Discussed~~ No 10, March 1953,
pp 441-454.

23,600

Aluminium Lab, LTD,
Tr No B-TM-153-54,
027/1169

Scientific - Mathematical

May 55 CTS

The Carbon Dioxide Hardening Method in the Foundry,
by W.Schumacher.

GERMAN, per, Giesserei, 1953, vol.40, no.26,
pp. 678-681.

SLA-TT-64-20376

Mat/Metal
Aug 66

307,713

On the Ladle Treatment of Cast Iron with
Magnesium Metal, by A. Witzmoser,

GERMAN, per, Giesserei, Vol XLII, No 5, 1954,
pp 105-108. -----

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\$4.60

Scientific - Min/Metals

2025 May 55
Apr 55 CTS
Apr

Physical Experiments in Casting and Gating Practice,
by L.Frede and H.H.Brandt.
GERMAN, per, Giesserei, 1954, v.41, no.11,
pp.283-288.
SLA-TT-64-20377

Mat/Metal
Aug 66

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Contribution to the Formation of Spherical Graphite
In Cast Iron, by Borut Marincek, 36 p.

GERMAN, por, Giesserei, 1954, Vol. XLI, No 12,
pp 313-320.

SLA 60-10241

Sci
Apr 60
Vol III, No 3

111, 984

Löbbecke, E[mat]. LINING OF BASIC CUPOLAS: A CRITICAL REVIEW OF THE LITERATURE ON THE PRESENT STATE OF DEVELOPMENT OF BASIC REFRACTORIES. THE POSSIBILITIES OF USING THEM WITH OR WITHOUT COOLERS IN THE CUPOLA. [Aug 55] 20p. (4 figs. omitted) 137 refs. Order from SLA mi\$2.40, ph\$3.30 Trans. of Gleason (West Germany) 1954, v. 41 [no. 19] p. 477-485.	60-18300 1. Cupola furnaces--Materials 2. Refractory materials-- Development 1. Löbbecke, E. II. Title: Critical... 142,802
(Materials--Refractories, TT, v. 5, no. 2)	Office of Technical Services

Coke Evaluation by the Cupola Furnace, by H.
Jungbluth.

GERMAN, per, Glasserei, Vol XLII, 1955, pp 2-6.

Dept of Int
US Bur of Mines
Central Exper Sta
Pitts., Pa. Tr 249

Sci - Engr

Jun 59

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The Surface Tension of Cast Iron Treated With
Cerium, by Rudolf Gantschi, Borut Marinsek, 7 p.

GERMAN, per, Giessenrol, 1955, Vol XLVII, No 6,
pp 121-123.

SIA 59-40921

See
Mar 60
Vol 3, No 1

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A Study of Combustion in the Capola Furnace, by
C. E. Alexander, J. A. de Andres.

BERMAN, J. ^I ~~de Andres~~, Vol XLII, No 6, 1955,
pp 124-127.

DEPT of Interior
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Mr 250

Sci - Engr

Nov 59

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Busch, Heinz.
A NEW FORM MATERIAL BINDER. [1963] 14p.
(figs. omitted) 1 ref.
Order from SLA \$1.60 63-14637

Trans. of Gleeserei (West Germany) 1955, v. 42,
no. 8, p. 187-191.

DESCRIPTORS: *Binders, *Plastics, Oils, *Molding,
Sand, Casting, Foundries, Mechanical properties,
Economics, Steel, Castings, Adhesives, Material
forming.

With the development of solidification oils on artificial
resin base in the grades No. 1, 2 and 3 an attempt
was made to combine the good properties of the solidi-
fication oils with those of the artificial resins and to
employ them in steel foundries. The experiments
achieved the goal of mass producing finished cores
(Materials--Adhesives, TT, v. 10, no. 5) (over)

63-14637

I. Busch, H.

Office of Technical Services

Carbon Dioxide Hardening Process for Coremaking With
a Coreblowing Machine, by W. Jansen,

GERMAN, per, Die Giesserei, Vol XLII, No 9, 1955,
pp 236-237.

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Brutcher Tr 3456
\$1.85

Scientific - ~~Chem. Eng.~~
Engineering

Aug 55 CTS

Influence of Metallurgical Properties of Cast Steel
Upon Tendency to Hot Tearing, by H. Heyer,
E. Piwowarsky,

GERMAN, per, Giesserei, Vol XLII, No 11, 1955,
pp 273-279.

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Brutcher Tr 3539

Scientific - Min/Metals

Oct 55 CTS

Operation of the Hot-Blast Cupola, by W. Haas.

GERMAN, per, Die Giesserei, Vol XLII, No 11,
1955, pp 291-292.

Brutcher Tran 3581
\$2.80

Sci - Minerals/Metals

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Hot Tearing Tendency of Austenitic Manganese Cast
Steel From Remelt Heats, by F. C. Althof.

GERMAN, per, Die Giesserei, Vol XLII, No 14, 1955,
pp 362-370.

Brutcher Tran 3629

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Sci - Minerals/Metals

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Interaction Between Steel and Moulding Material, by
W. Trommer. UNCL

GERMAN, per, Gieseler, 18 Aug 1955, pp 433-440.

British Iron and
Steel Ind 1370

Sci - Min/Met
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New Knowledge Concerning Carbon Dioxide Process,
Waldemar Schumacher, 27 pp.

GERMAN, per, Giesserei, Vol XLII, No 24, 1955,
pp 653-659.

SIA 60-10279

Sci
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Inoculation and Inoculants in Metal Melts, by E. ^v
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pp 33-40.

SLA Tr 57-266

Sci - Minerals/Metals
Sep 57

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The Efficiency of a Cupola Furnace, by H.
Jungbluth.

GERMAN, per, ~~Giesserei~~, Vol XLIII, 12 Apr
1956, pp 180-181.

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Pitts., Pa. Tr 260

Sci - Engr

Jun 59

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The Influence of Some Elements on Spheroidal
Graphite Formation in Cast Iron, by J. Verelst,
A. De Sy.

GERMAN, per, Giesserei, Vol XLIII, M Jun 1956,
pp 305-315.

*BISI 3347

Sci - M/M
Aug 63

9 CAR/T. 1315

Methods of Determining Shrinkage Cavities in Cast
Iron, by A. Wittmoser.

GERMAN, per, Gieseler, Vol XLIII, Aug 2 1956,
pp 409-418.

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Sci
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The Jungbluth Grid Diagram and Material Conversion
in the Cold Blast Cupola, by W. Pattenson,

GERMAN, per, ⁶Gieseler, Vol XLIII, No 18, p 486,
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Faculty of Sci

Sci
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Recent Developments in the Field of Steel
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GERMAN, par, Giesserei, Vol XLIII, No 16,
1956, pp 508-519.

British Iron and Steel Ind
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Sci - Engr
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Influence of the Delivery Pressure on the Quality
of Pressure Die Castings, by F. Richter.

GERMAN, per, Glasserei, Vol XLIII, No 18, 1956,
pp 540-47.

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SLA TT - 66-10452

Apr 58

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Effects of Treatment of Cast Alloy Melts,
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GERMAN, per, Giesserei, Vol. 44, 1957,
pp 89-96,
SLA TT-66-10453

Sci-M&M
Jul 66

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Investigation of the Behavior of Williams
Hoods as Feeder-Gates for Steel Castings,
by H. U. Doliwa.
GERMAN, per, Ciesserei, Vol 44, No 5, 1957,
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Sci-HQM
Aug 66

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New Approach to the Thermodynamics and Calorimetry
of Alloys, Their Application to Iron and Steel, by
W. Oelsen, E. Schurmann.

GERMAN, per, Giesserei, Vol XLIV, No 5, 1957,
pp 113-120.

Henry Bratcher

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Sci - Physics

Sep 57

Moulded Structural Steel for Pressure Casting
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GERMAN, per, Giesserei, 14 Mar 1961, pp 141-145.

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Sci - Engr

Mar 61

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Nondestructive Testing of Castings by
Ultrasonics, by Gunter Bierwirth.
GERMAN, per, Gleason, Vol 44, No 17,
pp 477-485, 1957 9230184
AEC ORNL-Tr-729

Sci-M&M
Nov 65

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Investigation of the Refractory Lining Blast-Feed
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Patterson, Oberhafer.

GERMAN, per, Giesserei, 25 Apr 1957, 227-237.

~~Co-Op Tr Sch L: 685~~

Sci = Min/met
Jan 58

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Link to and Steel L 685

Effect of Gas Scavenging on the Magnesium
Consumption During Production of Cast Iron
Containing Spherical Graphite, by Wilhelm
Patterson, 52 p.

GERMAN, per, Giesserei, 1957, Vol XLIX, No 9,
pp 216-227.

BLA 79-20991

Sci

Apr 60

Vol III, No 3

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Graphite Separation by Gas Treatment of a Cast
Iron Melt, by George Blanc, Nicolas Volianik, 62 p.

GERMAN, per, Giesserei, 1957, Vol XLIV, No 10,
pp 277-290.

SLA 59-20990

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Apr 60

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Vol III, No 3

Patterns of Oxide Skins on Liquid Cast Iron, by
S. Madono.

GERMAN, per, Giesserei, Vol XLIV, No 24, 1957,
pp 714-718.

HB 4666

Sci - Min/Mat

Nov 59

BC1AA 891

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Ultrasonic Testing on Cast Iron With Lamellar
and Spheroidal Graphite Structure, by W.
Patterson, E. Bodmer. UNCL

GERMAN, ^Uber, Gießerei, Jul 1957, pp 909-917.

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(LA 15e.04)

Sci - Phys
Oct 59

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Development of High-Strength Steel Castings
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GERMAN, per, Gieseler, No 2, 1958, pp 87-92.

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Sol - Min/Met
Nov 58

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Sound Velocity as a Distinguishing Feature for
Evaluating Cast Iron, by Rolf Ziegler,
Richard G. Starr,
GERMAN, pt. Glass, Vol XLV, No 2, 1958,
pp 185-193.
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Jul 68

Austenitic Steel Castings for the Construction of
Gas and Steam-Turbines, by W. Stauffer, A. Keller.
UNCL

GERMAN, per, Glosserei, 24 Apr 1958, pp 229-239.

British Iron and
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801 - Engr
May 59

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Relative Hardness and Degree of Normality as
Criteria for the Evaluation of Gray Cast Iron,
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GERMAN, per, ~~Geisserei~~, Vol XLV, No 14, 1958,
pp 385-387.

HB 5710

Sci/Min/Met
Jan 63

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Rapid Sampling of Liquid Cast Iron, by
W. Ruff, H. J. Wirth.

GERMAN, per, Giesserei, Vol XLV, No 6, 1953,
pp ~~700~~ 700-701.

BCIRA 922

Sci
Jun 63

Velocity of Sound as a Characteristic for the
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Gerstner, 29 pp.

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AEC ORNL-tr-730

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Sci-Electronics

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Nov 65

The Use of Calcium Carbide in Cupolas, by
H. Timmerbeil.

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pp 513-516.

ECIRA 921

Sci
Jun 63

Results of Recent Research on the Cupola, by
W. Patterson.

GERMAN, per, Giasserei, Vol XLV, ^{No 9,} ~~Sep~~ 1953,
pp 525-531.

BCIRA 935

Sci
Jun 63

Investigations of the Surface Hardening Properties
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D. Ammann.

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pp 583-588.

X BCIRA 924

Sci
Jun 63

New Methods ~~in~~ of Combating Dust and Fume in
Foundries, by T. Wrene.

GERMAN, per, Giesserei, Vol XLV, No 11, 1958,
pp 693-700.

BCIRA 919

Sci
Jun 63

61-20588

Bandow, Kurt and Wagner, Karl.
CONTRIBUTION TO DEOXIDATION AND DESULFURIZATION IN THE CUPOLA FURNACE. [1959] [22]p.
27 refs.

Order from SLA \$2.60

61-20588

Trans. of Giesserei (West Germany) 1958, v. 45,
no. 15, p. 409-417.

Another trans. is available from BISI 55 as
BISI-1298 [1959].

DESCRIPTORS: *Cupola furnaces, *Iron, Production,
Deoxidation, Desulfurization.

(Metallurgy--Ferrous Metals, TT, v. 7, no. 4)

I. Bandow, K.
II. Wagner, K.

Office of Technical Services

Chen's Injection of Orange and allowing Anti-
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RESEARCH, FOR, Glennville, No 20, 1998, pp
227-230.

Henry Bratcher 4868

Sci - Engg

Apr 98

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The Use of Calcium Carbide in Cupolas,
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GERMAN, per, Giesserei, Vol XLV, Sep 1953,
pp 542-545.

BCIRA 9

Sci
Jun 63

Wet Strength as a New Concept for Defining
the Behaviour of Clay-Bonded Moulding Sand, and
the Influence of Activation on Wet Strength, by
W. Patterson, D. Boenisch.

GERMAN, per, Giesserei, Vol XLV, Sep 1953, pp 565-567.

BCIRA 961

Sci
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Schulz, H. J. MANUFACTURE OF TOOLS USING SPARK EROSION MACHINES. [1960] 15p. (18 figs. 2 tables omitted). Order from SLA m\$2. 40, ph\$3. 30 Trans. of Gleason (West Germany) 1958 [v. 45, no. 20] p. 615-623. 61-10645 62-144195 151805 (Machinery--Manufacturing, TT, v. 5, no. 9)	61-10645 1. Tools--Production 2. Spark machining--Applications I. Schulz, H. J. Office of Technical Services
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Problems in Chlorine Treatment of Aluminium
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GERMAN, per, Gesserei, Vol XLV, No 21,
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Sci --Min/Met

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Apr 62

Scientific Problems of Moulding Materials
and Techniques, by R. Grochalskiy.

GERMAN, per, Giesserei, Vol XLVI, Jan 1959,
pp 60-63.

BCIRA 963

Sci
Jun 63

The Oxidizing Technique of Melting Copper Alloys,
E. Brunhuber, 13 p.

GERMAN, per, Giesserei, 1959, Vol XLVI, No 1,
pp 86-92.

ATS-361323

75-1017-65

Sci

Feb 60

Vol 2, No 9

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Contribution of the Effect of Pan Additions on
Cast Iron: Degree of Maturity and Relative
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Wilhelm Patterson, 54 pp.

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SLA 61-20829

Sci
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Vol VII, No 3

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RECENT DEVELOPMENTS OF WEAR-RESISTANT CAST
MATERIALS FOR HARD GRINDING PURPOSES, PART I, II,
BY E. TELFER, D. NORMAN, G. E. OTT.

GERMAN, PER, GIESSEREI, 30 JUL 1959, PP 441-447,
13 AUG 1959, PP 471-478.

BISI 2964

SCI - ENGR

OCT 62

LIST 154

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Patterns of Oxide Skins on Liquid Cast Iron, by
S. Madono.

GERMAN, per, Giesserei, Vol XLIV, No 24, 1959,
pp 714-718.

MB 4666

Sci
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Continuous Casting: (a) Iron and Steel (With a
World List of Installations), by A. Wittmoser.

GERMAN, per, Gieserei, 22 Oct 1959, ^{Vol XLVI} pp 718-722.

BISI 1920

Sci - Engr

Mar 61

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Ultrasonic Inspection, One of the Methods of
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Schinn.

GERMAN, per, Die Gießerei, Vol. XLVI, 1959,
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HB 4787

Sci - Phys

May 60

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Laboratory Investigations Into Shell Moulding
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GERMAN, per, Giesserei, Vol XLVI, Dec 1959,
pp 933-939.

DCIRA 964

Sci
Jun 63

Iron-Carbon Alloys Thermodynamically Considered, by
F. Neumann, et al. UNCL

GERMAN, per, Giesserei, No 23, 1959, pp 1217-1246.

*British Iron and
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Sci - Min/Met
Jun 59

Production of High Conductivity Copper
and Copper Alloy Castings, by E. Brunhuber.
GERMAN, per, Giesserei, Vol 46, No 1,
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SLA TT-66-10451

Sci-M&M
Jul 66

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Flash Butt Welding of Grey Cast Iron, by
L. Hutter, H. Neumann.

GERMAN, per, Giesserei, Vol XLVI, No 27,
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BCIRA 965

Sci
Jun 63

The Problem of Pinhole Porosity in Steel Castings,
by R. Wlodawer. UNCL

GERMAN, per, Giesserei, 14 Jan 1960, pp 1-7.

AISI 1608

(15.5s.Od.)

Sci - Min/Mat
May 60

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Influence of Residual Elements on the Solubility
and Activity of Carbon and the Degree of Saturation
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W. Patterson.

GERMAN, per, die Giesserei, Vol XLVII, 28 Jan 1960,
pp 25-32.

BCIRA 1000

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Aug 61

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Non-Destructive Quality Control of Cast Iron
Parts by Determination of Ultrasonic Damping,
by G. Bierwirth.

GERMAN, per, Gieseler, Feb 1960, pp 94-98.

BISI 1853

Sci - Engr

May 61

156 956

Behaviour of Malleable Cast Iron Under Impact
Stress, by K. Lohberg, H. G. Trapp.

GERMAN, per, die Giesserei, Vol XLVII, Jun 1960,
pp 283-287.

BCIRA 992

Sci

Aug 61

Moulding Sands With Additions of Glycol Especially
for Casting Heavy Metals, by E. Brunhuber,
W. Buchen.

GERMAN, per, die Giesserei, Vol XLVII, 30 Jun 1960,
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BCIRA 993

Sci - Eng

Aug 61

Determination of the Hydrogen Content of Aluminum
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GERMAN, per, Die Giesserei, Vol XLVII, No 8,
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*BISI E 2071

Sci - Min/Met

Apr 61

Behaviour of Malleable Cast Iron Under Impact
Stress, by K. Lohberg, H. G. Trapp.

GERMAN, per, die Giesserei, Vol XLVII, Jun 1960,
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BCIRA 992

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Aug 61

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Temperature Measurement in Steel Melts With a
New Type of Immersion Thermocouple, by H. J.
Meerkamp van Embden.

GERMAN, per, Die Giesserei, Vol XLVII, 16 Jun
1960, pp 328, 329.

BISI 2039

Sci - Engr

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Jun 61

Moulding Sands With Additions of Glycol Especially
for Casting Heavy Metals, by E. Brunhuber,
W. Buchen.

GERMAN, per, die Giesserei, Vol XLVII, 30 Jun 1960,
pp 358-361.

BCIRA 993

Sc1

Aug 61

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Treatment of Liquid & Cast Iron With Ultra-
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GERMAN, per, Giesserei, Vol XLVII, No 17,
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HB 5341

Sci - Phys
NEW Dec 61

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New Automatic Moulding Equipment, by H. Bergmann.

GERMAN, per, Giesserei, Vol XLVII, 8 Sep 1960,
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BCIRA 1002

Sci - Engr

Sep 61

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Determination and Calculation of the Riser
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GERMAN, per, Giesserei, Vol 47, No 18,
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HB 6822

Sci-MGM
Aug 66

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Dust Control Problems in the Foundry Industry, by
U. Klinge.

GERMAN, per, Giesserei, Vol XLVII, 22 Sep 1960,
pp 526-530.

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EEur - Germany

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Sep 61

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The Proportion of Steel Scrap in the Charge When
Melting Cast Iron in a Cupola Furnace, by
H. Siepmann, H. Pacyna, H. W. Hauptvogel.

GERMAN, per, Blesserei, Vol XLVII, Mar 3 Nov 1960,
pp 608-614.

ALSI 2416

Sci - Chem

Mar 62

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Laws Governing Cupola Melting, by W. Patterson,
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GERMAN, per, Die Giesserei, Vol XLVIII,
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HB 5200

Sci - Engr

Jan 62

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Ultrasonic Inspection of Steel Castings, by
A. Kolorz.

GERMAN, per, Die Giesserei, Vol XLVIII, No 5,
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Sci - Engr

Jul 61

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Aluminum Castings for Anodic Oxidation, by
A.A.Bloch.
GERMAN, per, Giesserei, Vol.48, pp.145-150,
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AERDL-T-1835-66; AID-632,672
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Sept 66

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Relationship Between Wet Strength and Tendency to
Defects of Green Sand, by W. Patterson, D. Boenisch.

GERMAN, per, Giesserei, Vol XLVIII, 6 Apr 1961,
pp 157-166.

BCIRA 1010

Sci - Chem

Sep 61

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KRALL, H.A. Introduction of a cantilever slinger unit for
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Contribution to the Study of the Erosion Problem
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NRC/C-4088

Sci-M/M

Aug 63

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Dobber, W.
PNEUMATIC CONVEYING OF COAL DUST, BENTON-
ITE, AND QUARTZ SAND. 5p.
Order from ATS \$8.00

ATS-01R76G

Trans. of Gleaserel (West Germany) 1961, v. 48,
no. 10, p. 293-295.

(Machinery, Fabrications and Accessory Equipment,
TT, v. 12, no. 5)

TT-64-22480

- I. Dobber, W.
- II. ATS-01R76G
- III. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

On the Life of Steel-Mill Molds, by J. Willems,
O. Oelsen.

GERMAN, per, Giesserei, Vol XLVIII, No 15, 1961,
pp 425-428.

HB 5222

Sci - min/metals

Aug 62

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Schürmann, Eberhard.
THE DESULFURIZATION OF CAST IRON BY
MANGANESE (Die Manganentschwefelung bei
Gusseisen). [1963] [41p] (foreign text included) 38refa
Order from SLA \$4.60 TT-64-10544

Trans. of Gieseler (West Germany) 1961, v. 48,
no. 17, p. 481-487.

DESCRIPTORS: *Iron alloys, *Castings, *Desulfuri-
zation, Melting, Temperature, Sulfides, Separation.

(Metallurgy--Ferrous Metals, TT, v. 11, no. 6)

TT-64-10544

I. Schürmann, E.

Office of Technical Services

Basic Oxygen in Process for Production;
by R. Pinesch, et al.

GERMAN, par, Giesserei, Vol XLVIII;
No 19, 1961, pp 533-540.

HB 5342

Sci - Engr
Dec 62

217,452

Production of [Semi-] Continuous-Cast
Gray Iron Bar Stock in a Wertli-Type
Horizontal Casting Machine, by
G. Stahli, E. Sinner.

GERMAN, per, Die Giesserei, Vol XLVIII,
No 19, 1961, pp 545-558.

HB 5343

Sci - Engr
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